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		19 October 1958
	MEMORANDUM FOR : Chief, Operations Branch, DPD	
	SUBJECT : Camouflage Paint	
25X1A 25X1A	l. During the past two years there have been numerous attempts to verify that the camouflage paint used on the and is the best available for the purpose intended. Tests have included visual comparisons of painted and unpainted aircraft, comparison of photographs taken under various conditions and an attempt to perform a spectral analysis of the painted vehicle. Tests have been inconclusive due to variations imposed by such factors as variations in reports of individuals performing visual observations, inability to obtain sufficient photography (under a wide scope of exposure and reflectance conditions) upon which to base a positive recommendation, and the limited amount of data procurable, under proper conditions, to perform a spectral analysis.	
, T	2. The paint presently used on the During the course of previous tests, it to flouresce or glew under most lighting of spectral analysis studies on this sugar paint which they felt would possibly U-2 at altitude. This paint is:	was determined that blue tends as conditions. During the course abject, Eastman Kodak recommended
25X1A	a. Epoxy Flat Black air cured	paint manufactured by
25X1A	b. To apply: wash aluminum first with 2 or 3 per cent phosphoric acid, rinse with water and dry surface prior to applying paint.	
	c. This paint is believed to have less than 5% reflectance. Reflectance could be further reduced by using phosphoric acid (b) wash after paint has dried.	
	3. No data is available on weight surface as pertains to skin frictions (application.	
25X1A	4. Recommendations:	
25X1A	to obtain specifications and data on subject paint.	

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- b. If data obtained looks promising, Technical Section be authorized to initiate procurement action to obtain a quantity of paint sufficient to paint one aircraft.
- g. That test bed aircraft at Edwards AFB be painted with subject paint.
- d. That Edwards Test Detachment perform an evaluation of the Epoxy Flat Black painted vehicle as compared with a vehicle painted with the existing paint. Test parameters on this latter recommendation will be compiled by the Technical Section.

25X1A

Chief, Technical Section

Concur! Committ

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SUBJECT: Camouflage Paint

1. One of the positive conclusions reached in the zoom climb tests conducted to determine the vulnerability of the U-2 was that the survival against the day fighter capable of zoom climbing to co-altitude is directly proportional to the attacker pilot's capability to visually sight the aircraft. These tests further indicated that the present paint configuration leaves much to be desired. The F-102 pilot stated, "Whenever requested I was able to go from my radar contact to a visual contact. The target was easily discernible as a bright gray against the dark blue sky and features such as wing shape, fuselage, profile, number of engines, etc., were detectable." There is positive confirmation that in an other use of this vehicle, it has been detected utilizing the present paint configuration. It is therefore strongly recommended that this project be given the highest priority.

25X1A			
Intelligence	Section		

